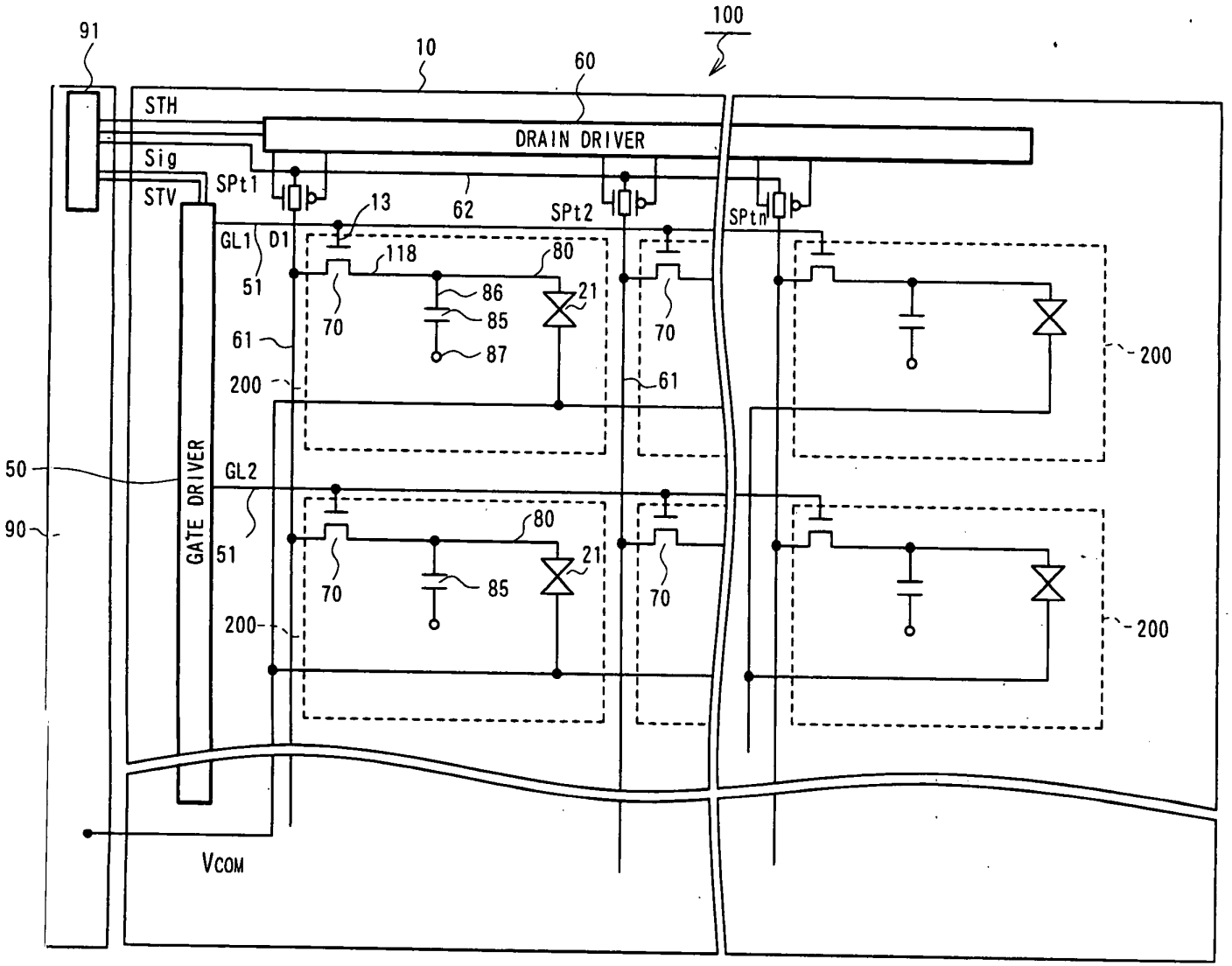

Fig.1 PRIOR ART

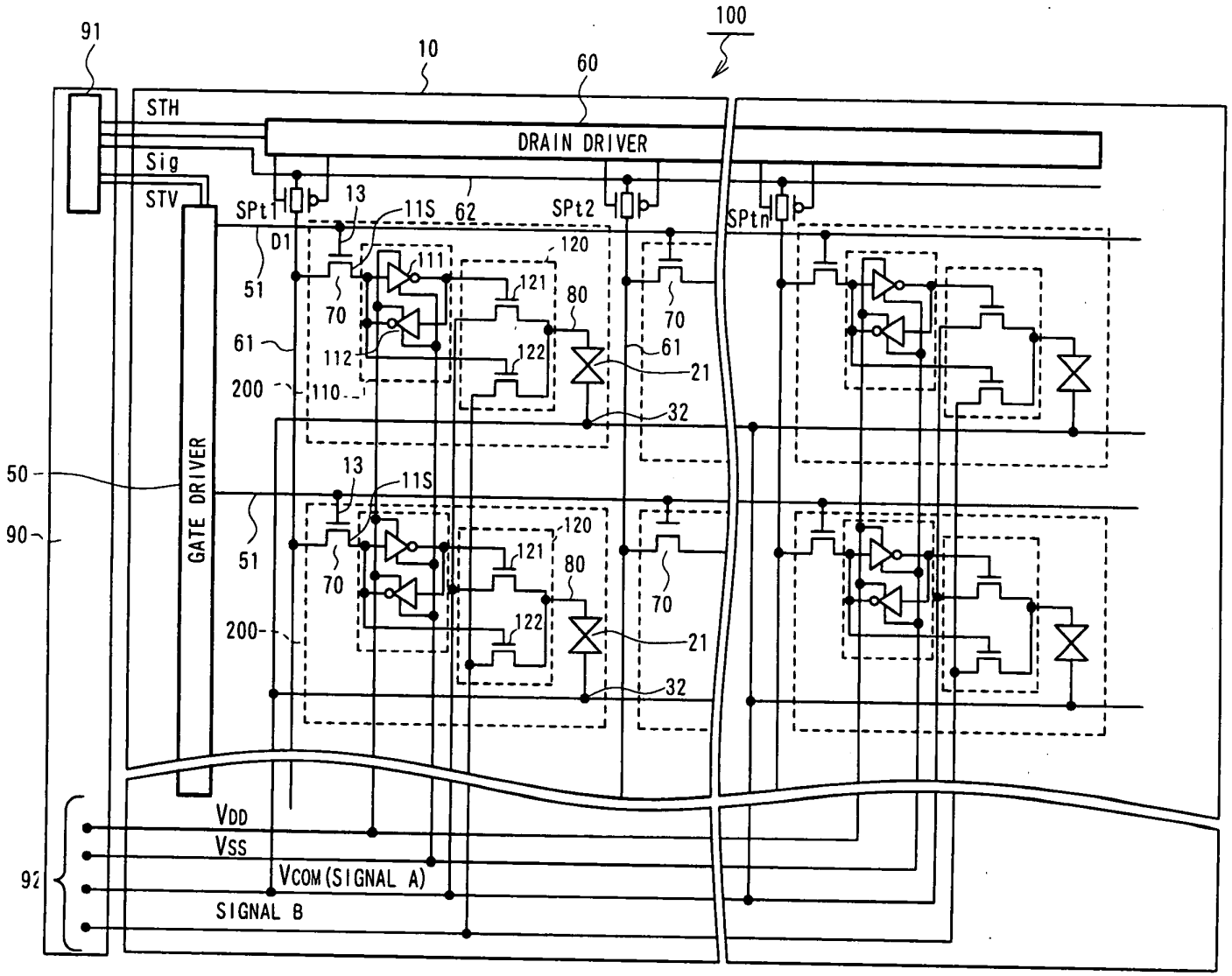
91
10
60
100
STH
Sig
STV
DRAIN DRIVER
SPt1
SPt2
SPtn
13
11S
62
D1
51
70
111
120
121
80
61
112
122
21
200
110
32
50
90
GATE DRIVER
VDD
VSS
VCOM (SIGNAL A)
SIGNAL B
92

Fig.2A

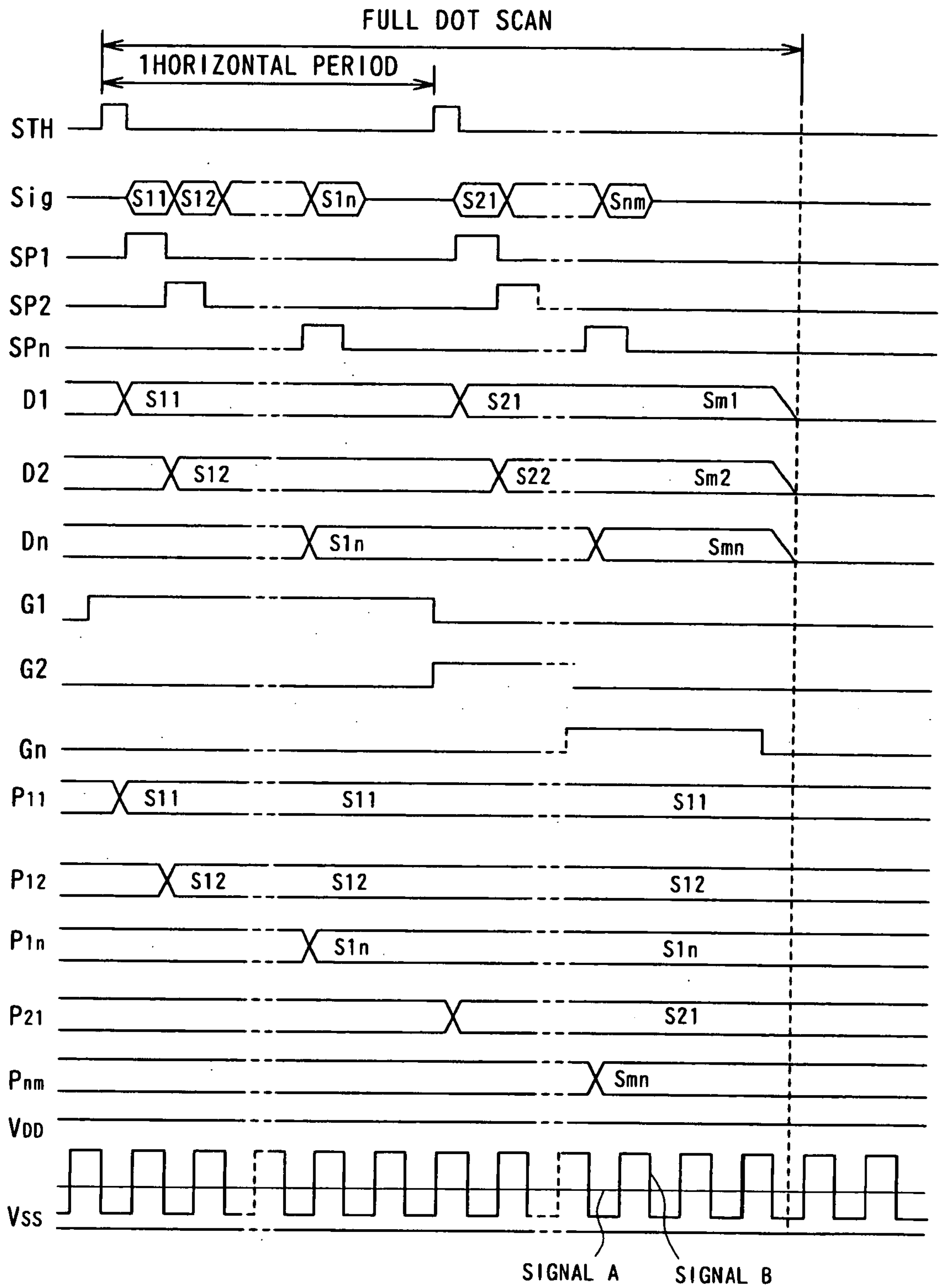
FULL DOT SCAN
1HORIZONTAL PERIOD
STH
Sig
S11
S12
S1n
S21
Snm
SP1
SP2
SPn
D1
S11
S21
Sm1
D2
S12
S22
Sm2
Dn
S1n
Smn
G1
G2
Gn
P11
S11
S11
S11
P12
S12
S12
S12
P1n
S1n
S1n
P21
S21
Pnm
Smn
VDD
VSS
SIGNAL A
SIGNAL B

Fig.2B

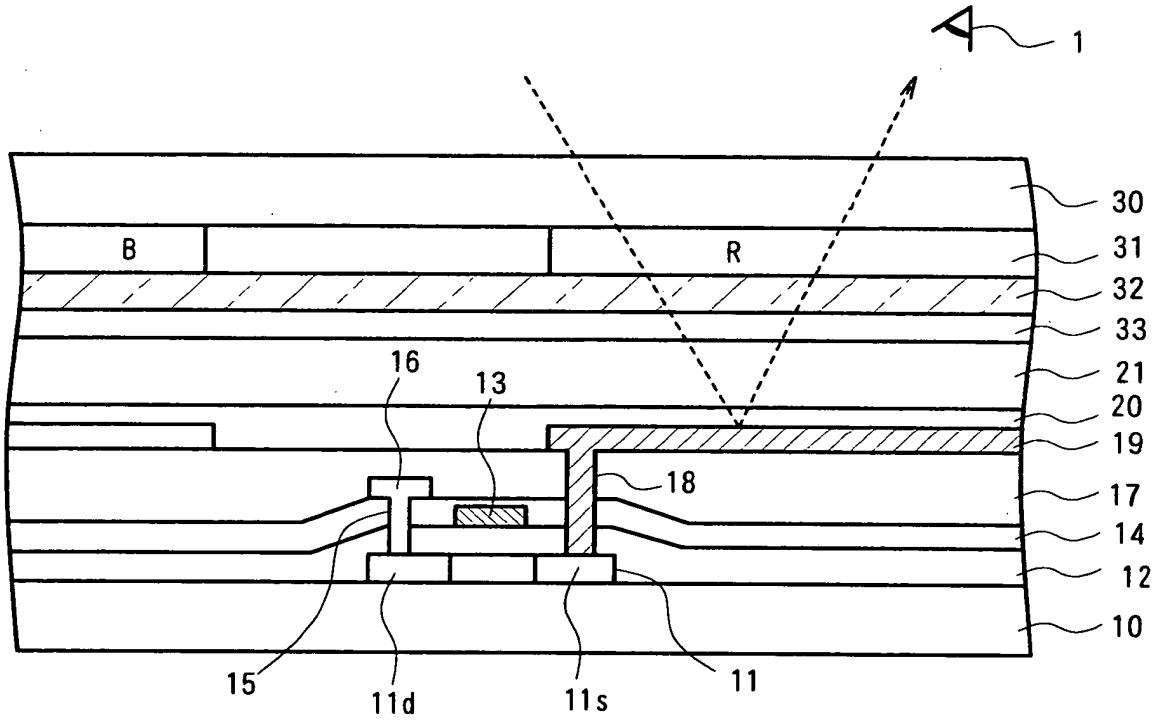

Fig.3

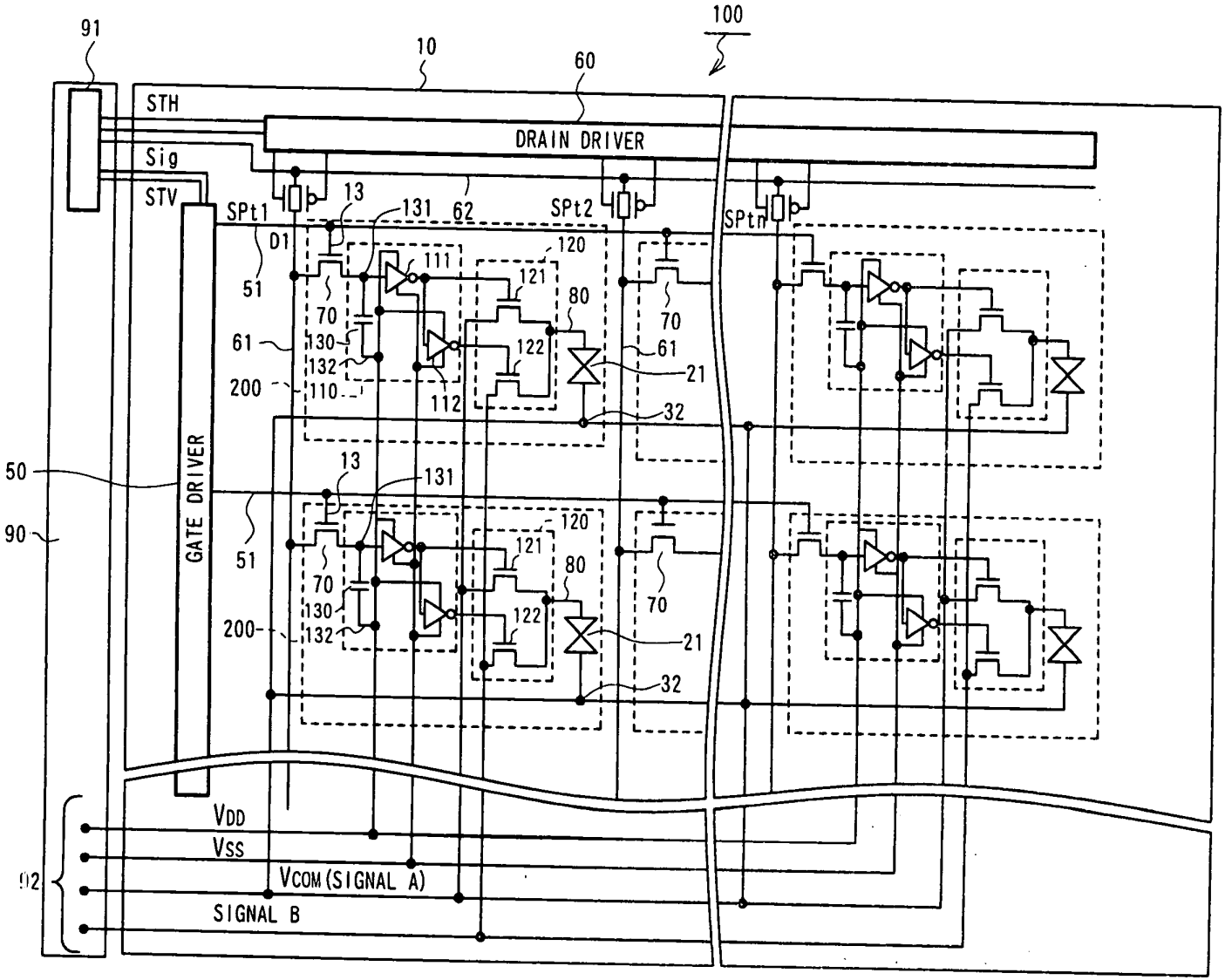
91
10
60
100
STH
Sig
STV
DRAIN DRIVER
GATE DRIVER
SPt1
SPt2
SPtn
D1
51
13
131
62
111
120
121
80
70
61
130
132
200
110
112
122
21
32
50
90
VDD
VSS
VCOM (SIGNAL A)
SIGNAL B
92

Fig.4

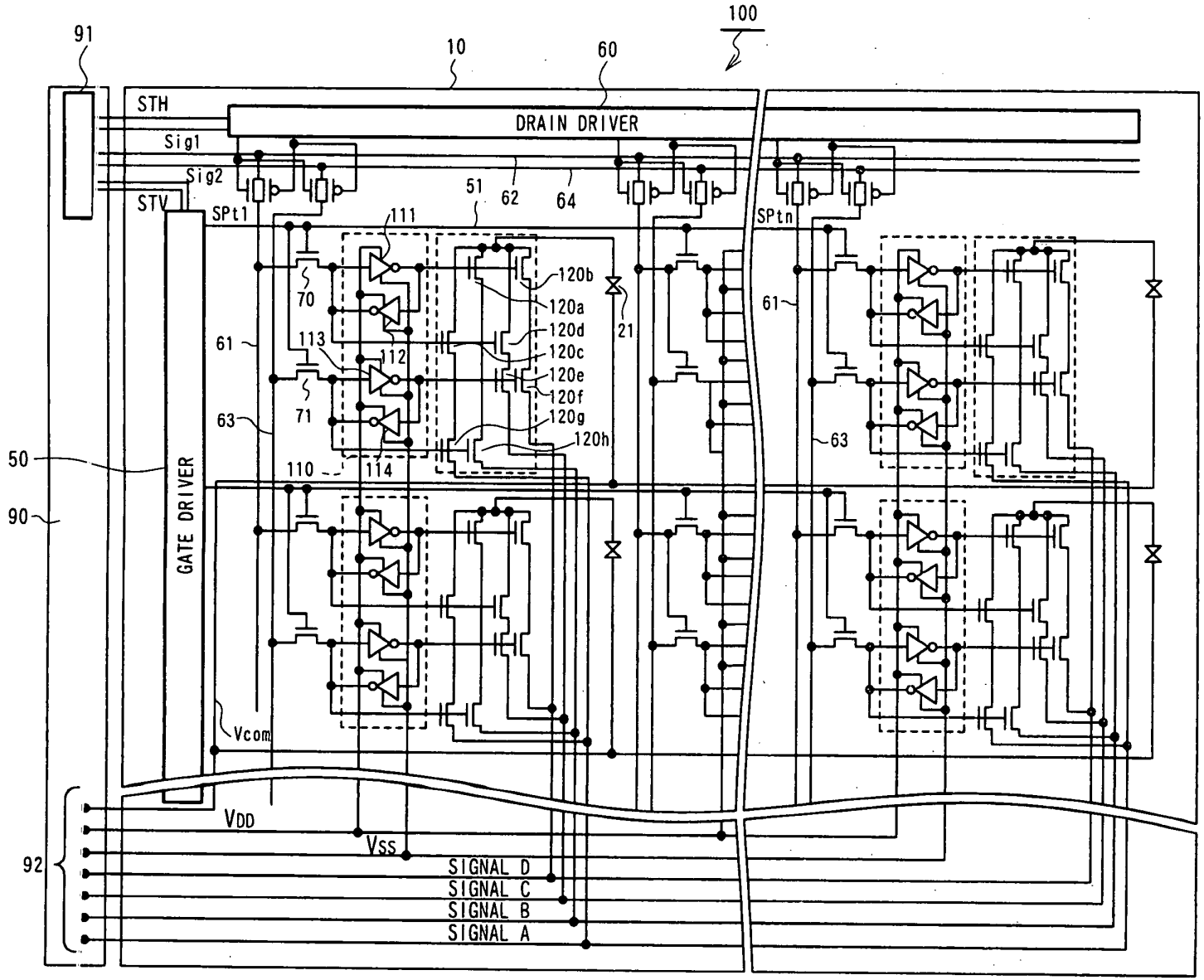

Fig.5

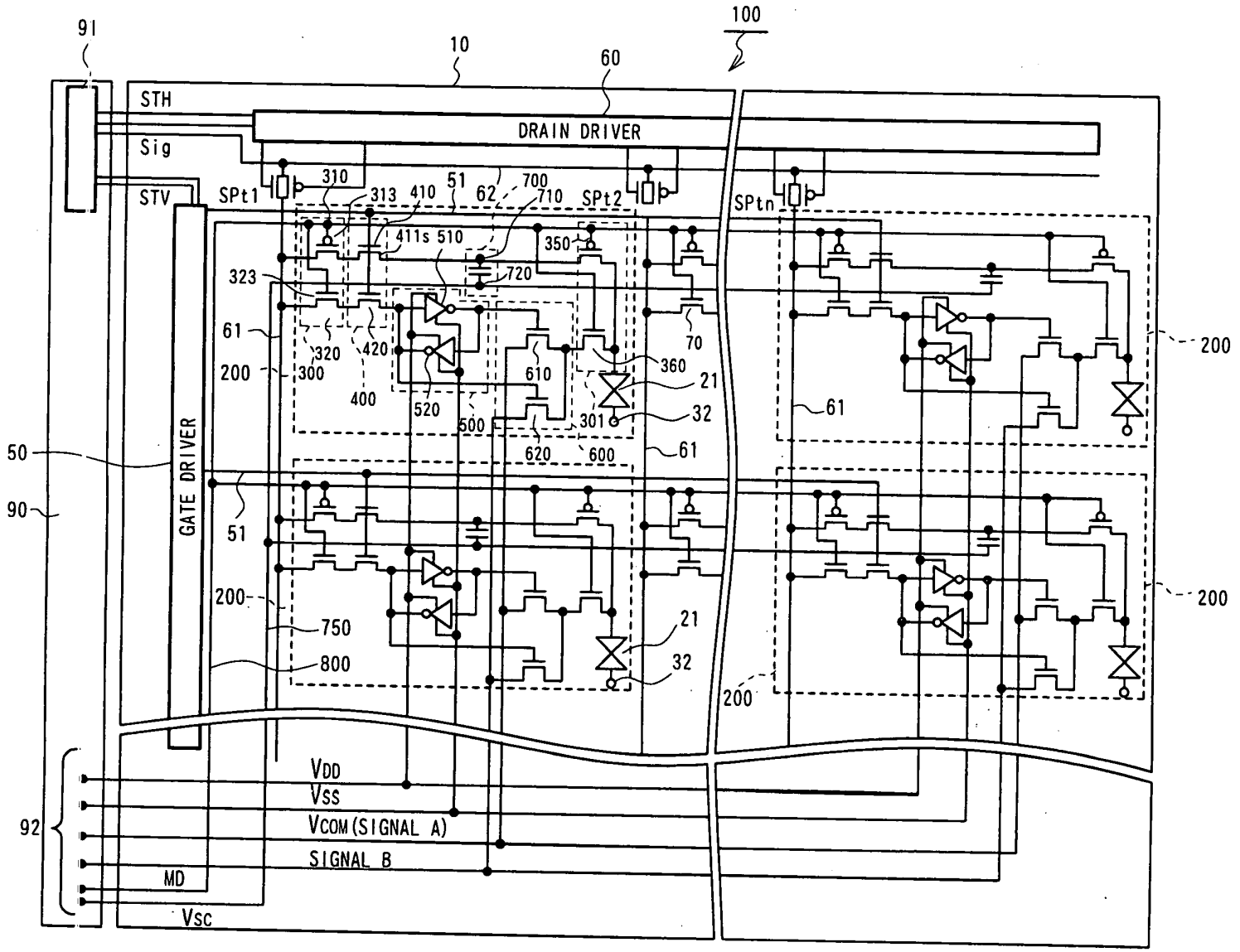
91
10
60
100
STH
DRAIN DRIVER
Sig
STV
SPt1
SPt2
SPtn
310
313
410
51
62
700
710
411s
510
350
720
323
61
320
420
70
200
300
610
360
21
400
520
500
301
32
620
600
61
50
GATE DRIVER
90
51
200
750
800
21
32
200
61
200
200
VDD
Vss
VCOM(SIGNAL A)
SIGNAL B
92
MD
Vsc

Fig.6

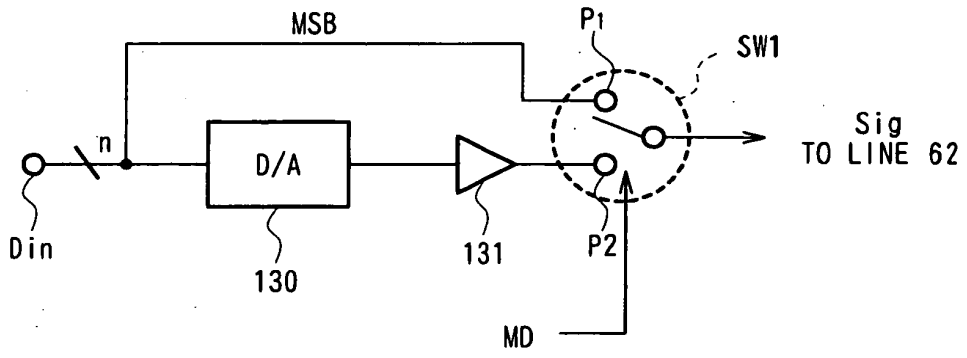

Fig.7

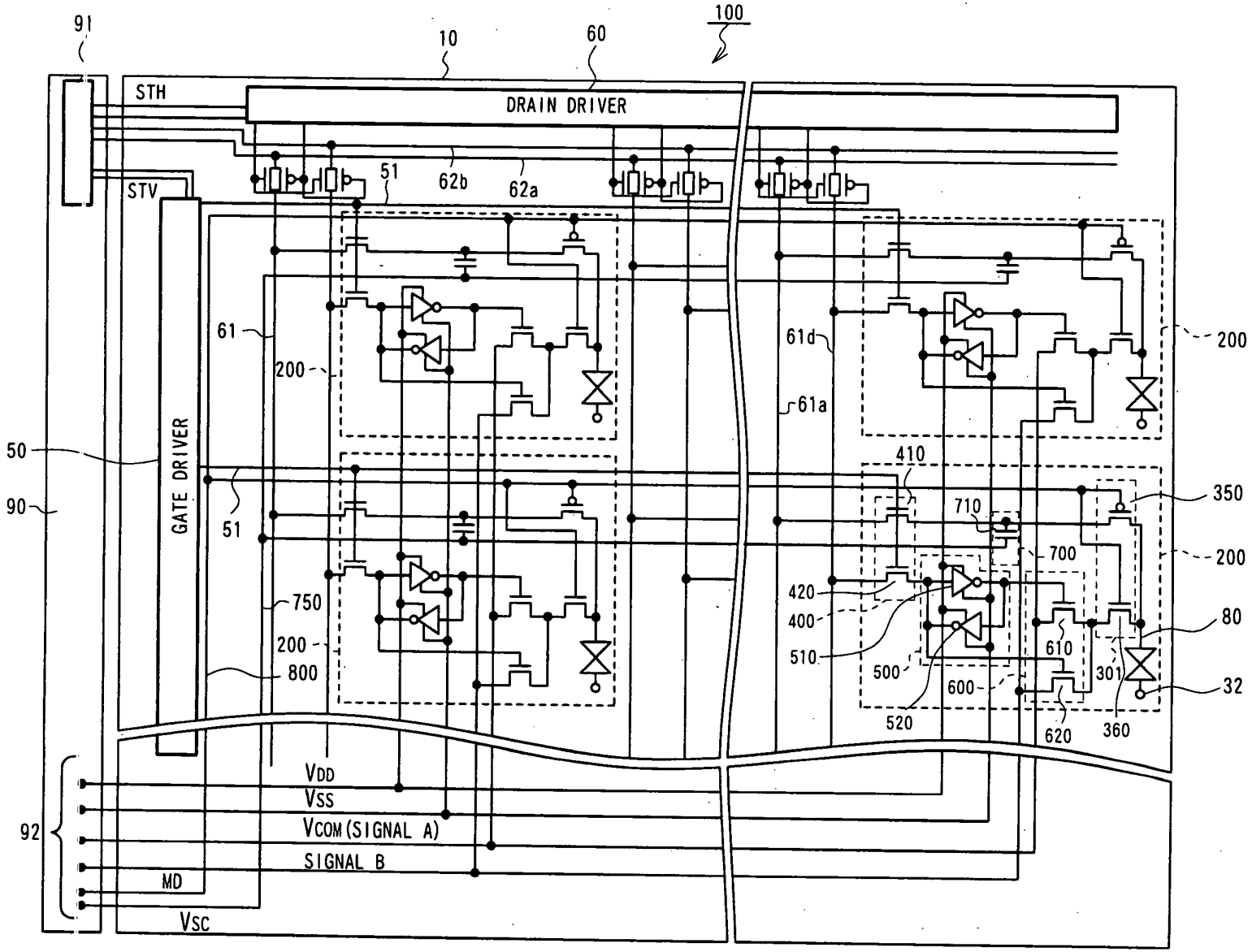
91
10
60
100
STH
DRAIN DRIVER
STV
51
62b
62a
61
200
61d
61a
200
50
GATE DRIVER
90
51
410
350
710
700
200
750
200
800
420
400
510
610
80
500
600
301
32
520
620
360
VDD
VSS
VCOM (SIGNAL A)
SIGNAL B
92
MD
VSC

Fig.8

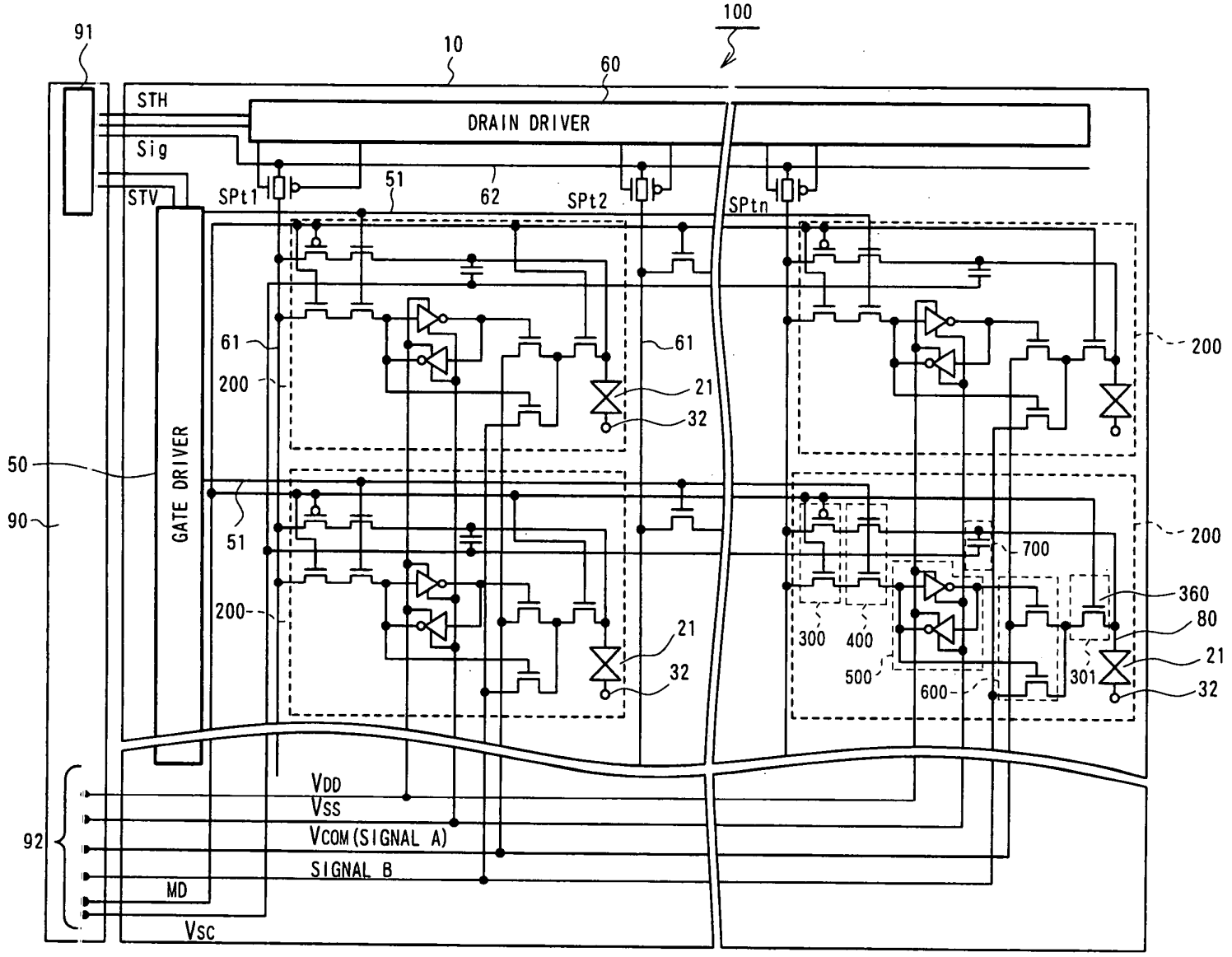
100
91
10
60
STH
Sig
STV
DRAIN DRIVER
SPt1
51
62
SPt2
SPtn
61
200
21
32
50
90
GATE DRIVER
700
360
80
300
400
500
600
301
92
VDD
VSS
VCOM (SIGNAL A)
SIGNAL B
MD
VSC

Fig.9

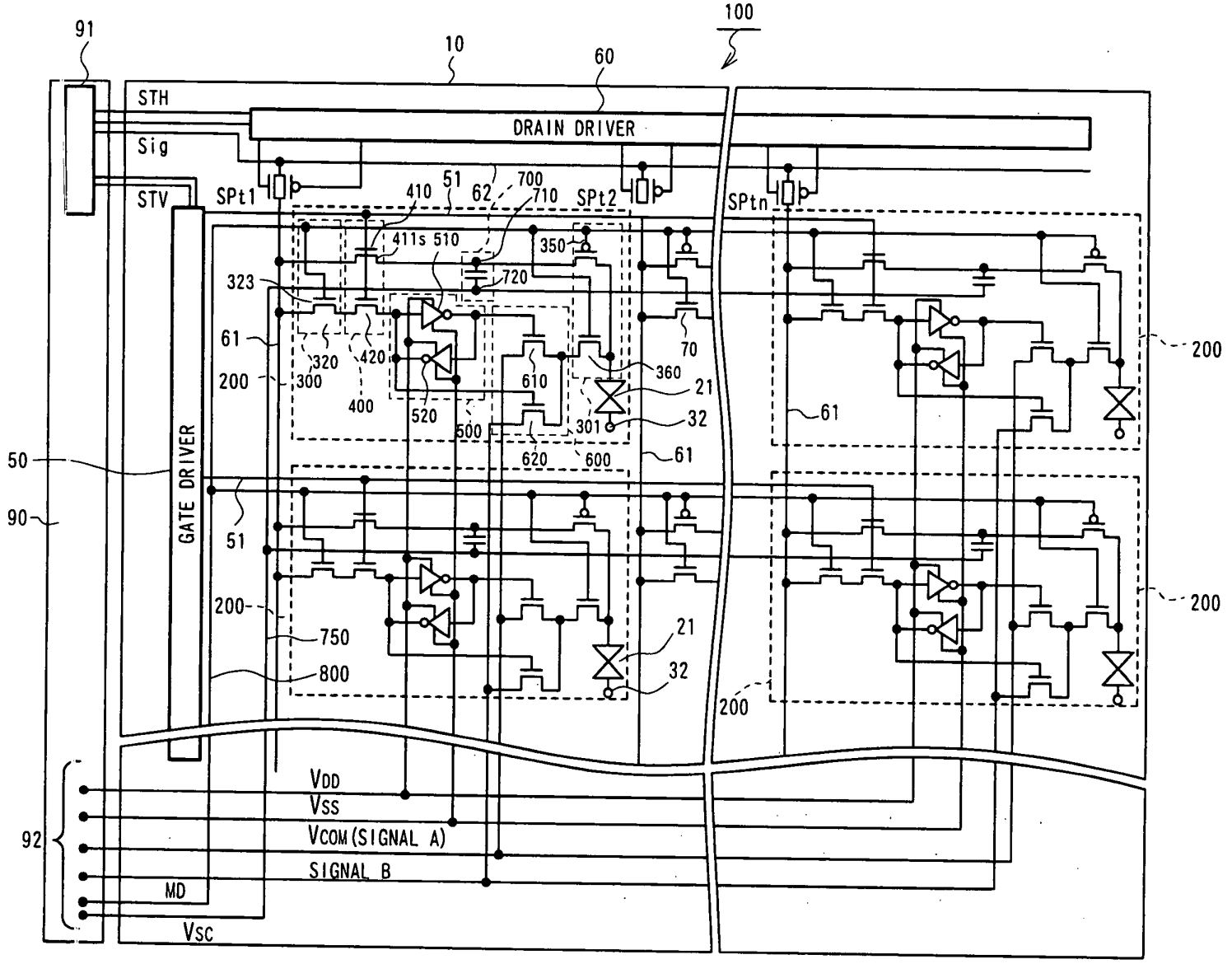
91
10
60
100
STH
Sig
STV
DRAIN DRIVER
SPt1
SPt2
SPtn
410
51
62
700
710
411s
510
350
720
323
61
320
420
300
400
520
500
610
360
21
301
32
620
600
70
200
50
GATE DRIVER
90
51
200
750
800
92
VDD
VSS
VCOM (SIGNAL A)
SIGNAL B
MD
VSC

Fig.10